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(56) Documents Cited
GB 1587124 A FR 002671047 A1 FR 002241446 A
US 3648324 A US 3401529 A

(58) Field of Search
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INT CL⁶ A63B 21/065 , B63C 11/30
ONLINE-WPI, CLAIMS

(54) Detachable hand weight belt harness

(57) A Diving Weight Belt Harness, has a weight (13) which is detachable in case of emergencies and for comfort and ease in use. When the weights are not required they can be removed, leaving just the harness on the person until he or she is ready for the next dive, in which case the weights are just slid into the carriers (14) locking them in. The weights can be attached or detached from the carrier by depressing a button (15) on the weight.

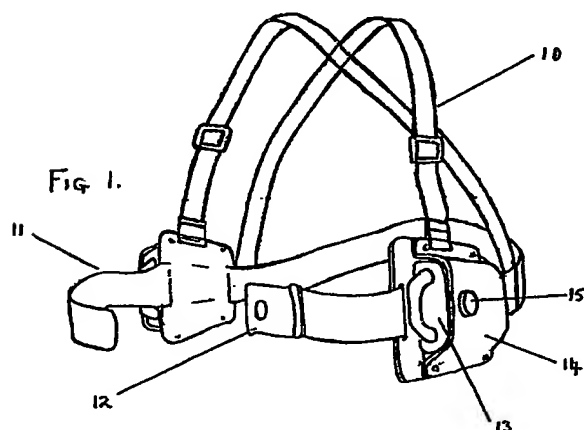
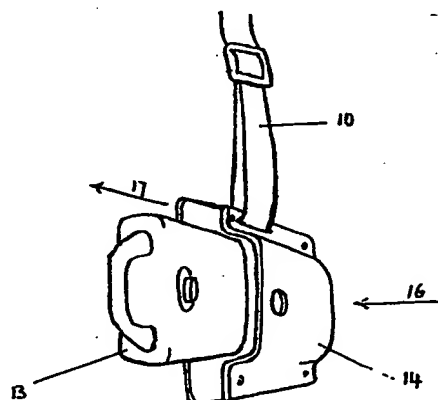


Fig 2.

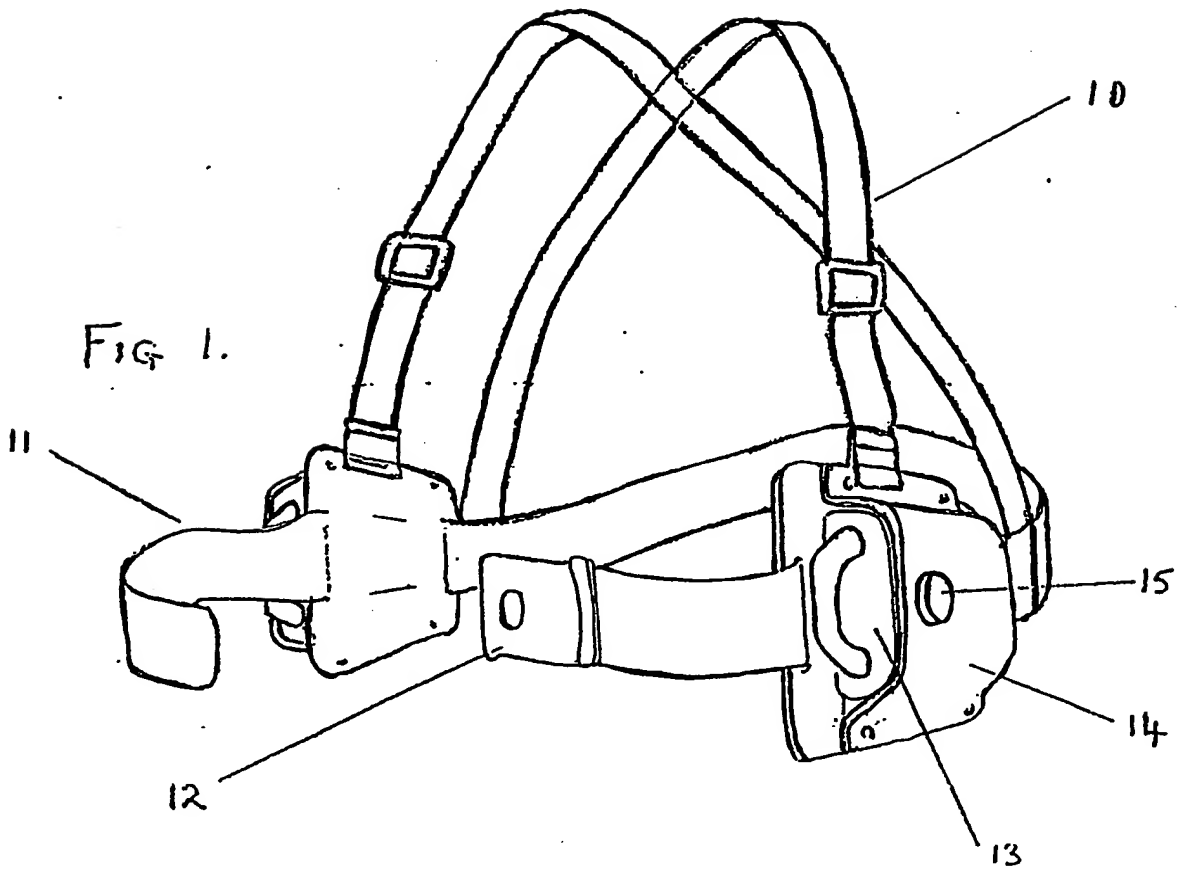


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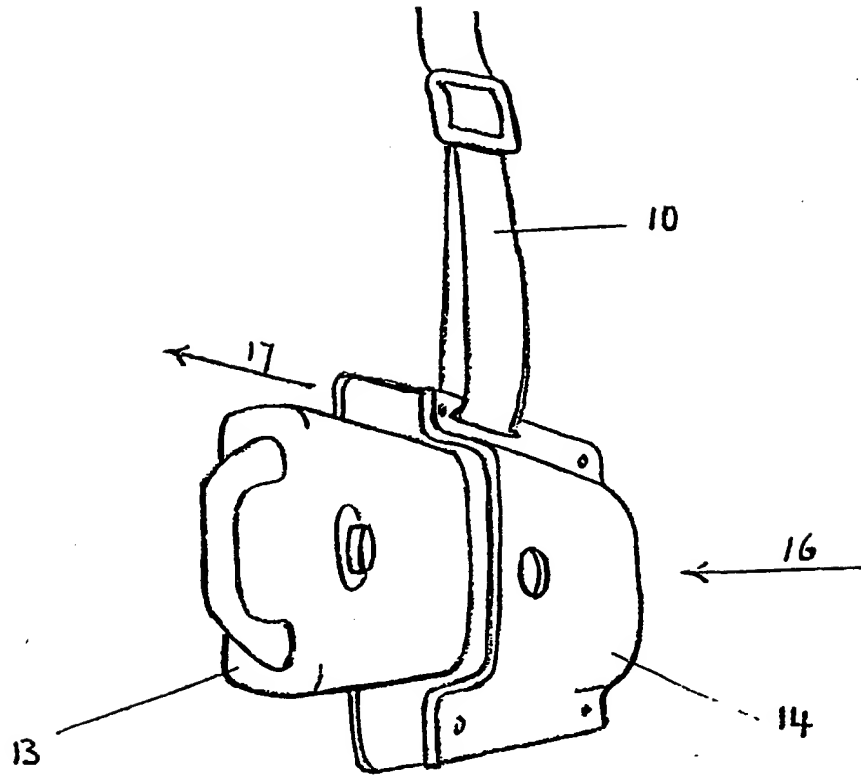
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FIG 1.



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FIG 2.



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THIS INVENTION RELATES TO DETACHABLE HAND
WEIGHTS FOR DIVING BELT

Diving Weight Belts are required to take the Diver down to depth when diving. Diving Belts in main consist of either lead shot in pouches, or lead blocks attached to a belt, which wraps around the Divers waist, held on by a quick release buckle.

These types of Weight Belts are (a) very uncomfortable and (b) most importantly potentially dangerous, with many accidents with Divers losing their weight Belts at depth, resulting in some cases in death, due to the fact of the quick release buckle coming undone. The ability to beable to dump these weights quickly in an emergency is of the utmost importance, hence the reason for the quick release buckle.

With this invention, it is not only extremely comfortable and pleasant to wear, but it has a very high standard of safety, with the plus that it is possible to beable to release part of the total weight without losing all the weight as with many other Weight Belts, thereby, giving even more control in an emergency, simple as it is to release the weights they will not come off accidentally.

Referring to the Drawing The Weight Belt (as shown in Fig.1) Comprises a Harness 10 and Carriers 14 in which the weights 13 slide into.

In order to operate, the Harness 10 is fitted onto the shoulders and the Belt 11 placed around waist, to secure the quick release Buckle 12 is fastened. The Weight 13 is then slid into the Carrier 14, in doing so the Button 15 is depressed with the finger until it can not be held any longer. When the Carrier 14 takes over, until it has fully locked home, the Button 15 will then automatically release into the opening 16 on the Carrier 14 (as shown in Fig.2), thereby locking the Weight in, to remove, depress the Button 15 with finger and pull Weight in the direction 17 (as shown in Fig.2) from the Carrier 14.

(Applys to Both Sides)

CLAIMS

1. A Detachable Handweight for Diving Belt comprising a pre-shaped weight and moulded carrier, means for releasing and securing weight in moulded carrier.
 2. A Detachable Handweight for Diving Belt as claimed in Claim 1 wherein catchment means is provided on the weight, for arresting the weight in the carrier.
 3. A Detachable Handweight for Diving Belt as claimed in 1 and 2 Claims, wherein the catchment is automatically secured when weight is slid into the moulded carrier.
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Patents Act 1977
Examiner's report to the Comptroller under Section 17
(The Search report)

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Relevant Technical Fields

- (i) UK CI (Ed.N) A3V A6M (MAA)
(ii) Int CI (Ed.6) A63B 21/065 B63C 11/30

Search Examiner
R J MIRAMS

Date of completion of Search
22 JUNE 1995

Databases (see below)

- (i) UK Patent Office collections of GB, EP, WO and US patent specifications.

Documents considered relevant following a search in respect of Claims :-
1 TO 3

(ii) ONLINE: WPI, CLAIMS

Categories of documents

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| Category | Identity of document and relevant passages | Relevant to claim(s) |
|----------|--|----------------------|
| X | GB 1587124 A (MORGAN) eg Figures 8 and 9 | 1 |
| X | US 3401529 A (FIFIELD) whole document | 1 to 3 |
| X | FR 2671047 A (DJERMAG) see Abstract | 1 to 3 |
| X | FR 2241446 A (CAVALERO) see Abstract | at least 1 |
| A | US 3648324 A (STRADELLA) | |

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